IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Onous Selichi et al.

Appl. No. : 10/596,590

Filed : Jun 16th, 2006

For : Aqueous Coating Composition

Examiner ; Karuna P. Reddy

Group Art Unit : 1796

Confirmation No. : 815

SECOND DECLARATION UNDER 37 C.F.R §1.132

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

I, Seiichi Onoue declares and states that:

- I am a co-inventor of the above identified patent application and familiar with the specification and prosecution history.
 - 2. I received a Mater Degree in Engineering in 1999 from the KINKI University.
- Since 1999, I have been employed by SK KAKEN CO. LTD, and working as en engineer for 9 years.
- 4. I have prepared Comparative Examples 1-4 thorough 1-6, using a colloidal silica synthesized by adding concentrated hydrochloric acid slowly to sodium as a starting material, in the same manner as the colloidal silica of Storrow (see US 3069375, Table-1). The pH of the colloidal silica used in the experiments was adjusted to 8.0, 7.0 and 4.5, respectively, and experiments were conducted in the same manner as desorbed in the

present specification at page 13 and 34-36. The test results are shown in the attached Table 2.

5. As a result, in Comparative Examples 1-4, 1-5, and 1-6, since many ions such as Ne lons or those resulted from hydrochloric acid are contained, even if the PH of the colloidal silice is near neathed, electrical conductivity is high. Eventuation using such as colloidal silice aboved that it has lower resistance to min traceber efforcescence resistance. On the other hand, since the neutral soil of the present application is obtained from hydrolysis of a silicate, it contains few ion components. Therefore, it has been shown that the result of the evaluation sing the neutral soil of the present application is excellent.

6. I declare that all shatements made bareln of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful, false statements and the like so made are punisheds by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or patent is value therefrom.

Dated: January 20, 2009 By: Newsoho Onoue

6501365 011909 Anti-staining agent J: Colloidal silica (Starting material: Sodium Silicate, pH8.0, solid content 20wt%, average primary particle diameter 20nm, electrical conductivity 1.9 mS/cm)

Anti-staining agent K: Colloidal silica (Starting material: Sodium Silicate, pH7.0, solid content 20w1%, average primary particle diameter 20nm, electrical conductivity 1.9 mS/cm)

Anti-staining agent L : Colloidal silica (Starting material: Sodium Silicate, pH4.5, solid content 20wt%, average primary particle diameter 20nm, electrical conductivity 2.6 mS/cm)

Table 1

	Comparative Example 1-4	Comparative Example 1-5	Comparative Example 1-6
Emulsion A	200 (100)	200 (100)	200 (100)
Coloring pigment	96	96	96
Dispersant A	2	2	2
Disparsant B	0.5	0.5	0.5
Film forming assistant	18	18	18
Thickener	3	3	3
Defoaming	3	3	3
Anti-staining agent J	50 (10)	-	-
Anti-staining agent K	-	50 (10)	-
Anti-staining agent L	-	-	50 (10)

Table 2

	Comparative Example 1-4	Comparative Example 1-5	Comparative Example 1-6
Storage stability	×	×	0
Specular gloss	73	65	65
Tack free time (hr)	8	9 .	8
Area of dropped water stream(cm²)	14	12	10
Pollution resistance to rain streaking	2	2	2
Efflorescence resistance	×	×	×